

CLAIMS

1. A low emittance, camouflage, composite coating system for application to jet engine component surfaces in order to reduce their level of emitted energy and render them undetectable by missile and ground-base infrared detection systems which comprises:

- (1) a metal alloy substrate;
- (2) a thin, intermetallic coating of nickel aluminide diffused into the surfaces of said substrate;
- (3) a thin layer of a reflective, germanium containing, silver metal coating superimposed on said intermetallic coating; and
- (4) a germanium containing, glass-ceramic, protective overlay coating superimposed on said silver reflective coating.

2. A coating system in accordance with claim 1 wherein said intermetallic coating is from about 1.2 to 1.4 mils in thickness.

3. A coating system in accordance with claim 1 wherein said reflective coating is about 0.5 mils thick.

4. A coating system in accordance with claim 1 wherein said overlay coating is about 2.0 mils thick.